Naṣīr al-Dīn al-Ṭūsī, mathématicien et astronome du XIII^{e} siècle

Jeudi 21 février 2019
10h–16h30

PROGRAMME

10h – 10h15
Eleonora SAMMARCHI (SPHERE) :
Introduction

10h15 – 11h30
Zeinab KARIMIAN (Université Paris Diderot, SPHERE) : *Al-Ṭūsī and his Recensions of Mathematical Textbooks*
A considerable amount of al-Ṭūsī's mathematical works consists of his recensions on the mathematical treatises which were circulated among the scholars of his time and before. These mathematical textbooks included of Arabic translations of several Greek texts – known as Intermediate or Middle Books (*Kutub al-Mutawassiṭāt*) – as well as some of the mathematical works of medieval Islam. Several copies of *al-Mutawassiṭāt*, until 19th century, indicate the popularity and significance of these recensions. In this paper, I will discuss the importance of al-Ṭūsī's project, his aims, the complexity of the issues he dealt with, etc. I will also try to examine to what extent these recensions were close to the original texts and to explain the general aspects of these recensions.

11h30 – 12h Pause

12h – 13h
Hossein MASOUMI HAMEDANI (Université de Téhéran) : *Naṣīr al-Dīn al-Ṭūsī and the History of Spherical Trigonometry*
The development of spherical trigonometry, as an independent discipline, is generally considered as one of the main mathematical achievements of classical Islam. This development began by the simultaneous discovery of the sine law by several mathematicians in the tenth century, and the priority debate which arouse in this regard bears witness to the importance mathematicians attributed to this discovery. Al-Ṭūsī's redaction of *Unveiling the Secrets of the Setor Theorem*, both in Arabic and Persian, can be seen as a decisive stage in this development. In this article the main characteristics of this work, its structure and content, and the relations between its Arabic and Persian versions are discussed and its role in the coming of age of spherical trigonometry is explained.

14h – 15h
Erwan PENCHEVRE (SPHERE)
Planetary models in the astronomy of Naṣīr al-Dīn al-Ṭūsī

15h – 16h30
Table-ronde avec les intervenants de la journée, et Pascal CROZET (CNRS, SPHERE), Guillaume LOIZELET (Université Paris Diderot, SPHERE) et Eleonora SAMMARCHI (SPHERE)

Journée organisée par Zeinab Karimian et Eleonora Sammarchi
dans le cadre du séminaire « Sciences et philosophie de l'Antiquité à l'Age classique »
Centre d'Histoire des Sciences et des Philosophies Arabes et Médiévales
Laboratoire SPHERE, UMR 7219

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